## Yuma MSA TERM Report by CIP Program

## **Training & Education Resource Model**

Based on 2006-2008 occupational projections, Education & Training levels 1-11 (no restrictions)

Score = average of the five percentiles, using weights 3, 3, 1, 1, 1

			Percentiles					Labor Market Data						
Rank	CIP Code	CIP Title	Score	Open- ings	Wage	ONET	Growth Rate	Turn- over Ratio	Open- ings	Hourly Wage	ONET Score	Growth Rate	Turn- over Ratio	Ed & Train Code
1	52.02	Business Administration, Management and Operations	80.4	79	91	82	59	71	53	24.78	655	2.4	1.5	6.6
2	51.16	Nursing	78.4	68	97	85	62	65	41	27.24	656	2.5	1.3	6.1
3	43.01	Criminal Justice and Corrections	78.1	82	71	88	82	74	60	16.14	669	3.7	1.5	9.4
4	43.02	Fire Protection	68.0	35	79	100	91	76	15	16.70	754	4.7	1.7	8.9
5	52.01	1 Business/Commerce, General 65.7 18 100 71 76 91		13	30.85	641	3.0	2.4	4.5					
6	52.99	Business, Management, Marketing, and Related Support Services, Other	62.1	38	88	65	65	50	16	21.89	581	2.5	1.2	9.0
7	52.03	Accounting and Related Services	59.5	71	82	9	32	35	43	16.72	488	1.5	0.8	8.9
8	46.04	Building/Construction Finishing, Management, and Inspection	58.5	85	47	50	35	44	62	14.09	571	1.5	1.1	9.8
9	49.02	Ground Transportation	58.2	76	41	47	44	79	48	13.28	568	2.1	1.7	10.6
10	52.19	Specialized Sales, Merchandising, and Marketing Operations (NEW)	57.5	29	85	59	47	68	14	20.41	574	2.2	1.4	8.7
11	51.07	Health and Medical Administrative Services	53.9	74	44	26	50	56	46	13.86	530	2.2	1.2	9.0
12	01.01	Agricultural Business and Management	52.9	62	56	38	38	47	31	14.99	541	1.6	1.1	8.0
12	47.06	Vehicle Maintenance and Repair Technologies	52.9	50	74	74	21	12	22	16.32	652	1.1	0.5	7.5
14	12.05	Culinary Arts and Related Services	52.0	100	3	3	94	62	526	7.67	482	6.1	1.3	10.7
15	01.06	Applied Horticulture/Horticultural Business Services	51.6	88	29	21	53	38	109	12.22	511	2.3	0.9	10.5
16	46.05	Plumbing and Related Water Supply Services	50.3	41	59	97	29	26	17	15.02	702	1.4	0.7	9.1
17	52.04	Business Operations Support and Assistant Services	50.0	91	21	6	56	53	244	11.66	482	2.3	1.2	10.7
18	52.18	General Sales, Merchandising and Related Marketing Operations (NEW)	49.3	97	15	18	68	24	311	10.33	503	2.6	0.7	10.8
19	46.03	Electrical and Power Transmission Installers	49.0	21	76	91	18	41	14	16.63	677	1.0	1.0	9.2
20	31.05	Health and Physical Education/Fitness	48.4	26	32	62	100	97	14	12.29	574	7.1	3.3	7.3

			Percentiles					Labor Market Data					BLS	
Rank	CIP Code	CIP Title	Score	Open- ings	Wage	ONET	Growth Rate	Turn- over Ratio	Open- ings	Hourly Wage		Growth Rate	Turn- over Ratio	Ed & Train Code
21	13.13	Teacher Education and Professional Development, Specific Subject Areas	47.1	24	35	56	97	94	14	12.65	574	6.9	3.2	6.7
22	19.05	Foods, Nutrition, and Related Services 45.8 53 18 29 88 82		22	11.05	532	4.6	1.8	8.6					
23	13.15	Teaching Assistants/Aides 44.1 65 9 12 79 85		35	9.10	495	3.5	2.0	11.0					
23	47.03	Heavy/Industrial Equipment Maintenance Technologies 44.1 32 50 79 41 29		29	15	14.57	655	1.9	0.8	9.8				
25	52.08	Finance and Financial Management Services	43.1	56	53	15	15	32	25	14.74	498	1.0	0.8	9.6
26	52.15	Real Estate	43.0	13	94	53	3	9	13	25.60	573	-1.6	0.4	6.7
27	51.08	Allied Health and Medical Assisting Services	41.7	13	38	35	85	100	13	12.67	540	4.5	3.5	9.5
28	15.08	Mechanical Engineering Related Technologies/Technicians	39.5	9	65	94	26	15	13	15.23	686	1.2	0.5	7.0
29	19.07	Human Development, Family Studies, and Related Services	36.9	47	6	41	74	59	22	8.89	551	2.8	1.2	10.3
30	46.99	Construction Trades, Other	34.6	59	26	32	6	18	30	12.17	538	-1.1	0.6	9.6
31	01.03	Agricultural Production Operations	32.5	94	0	0	9	1	298	7.62	462	-0.8	0.0	10.9
32	48.05	Precision Metal Working	32.4	6	62	44	24	21	12	15.22	553	1.2	0.7	9.1
33	46.02	Carpenters	32.2	3	68	76	0	1	12	15.82	654	-4.0	0.0	9.1
34	01.02	Agricultural Mechanization	32.0	44	24	68	12	6	17	12.15	585	-0.2	0.4	9.3
35	51.26	Health Aides/Attendants/Orderlies	24.2	0	12	24	71	88	10	9.51	521	2.6	2.3	11.0

	Explanations for Each Column of the TERM Report									
	Column	Explanation								
А	Rank	This is the rank of the CIP (Classification of Instructional Program) by percentile score as shown in column D. Tie scores get tie ranks. Sometimes scores appear to be a tie, but if carried out to more decimal places, are not. Such CIPs are not assigned tie ranks.								
В	CIP Code	CIP (Classification of Instructional Programs) code as assigned by the U.S. Department of Education. See Sources note below for more details.								
С	CIP Title	The title of the training program, as assigned by the U.S. Department of Education Classification of Instructional Programs.								
D	Score	The score is a weighted average of columns E through I. The weights used are 3, 3, 1, 1, 1, respectively. See Calculation Method note below for more details.								
E-I	Percentiles	These 5 columns are the percentile scores of the data in columns J through N. Percentiles scores are used to compute different types of data in the model. For example, wages in dollars and growth in percentages. Tie scores produce tie percentiles.								
J	Openings	The projected number of openings expected per year for the occupations within this CIP. If an occupation is contained in more than one CIP, its openings are distributed evenly among those CIPs. Projected openings based on 2006-2008 occupation projections.								
K	Hourly Wage	The average of the wages of the occupations contained in this CIP, weighted by the number of openings in each occupation. Wages based on 2006 Occupational Employment Statistics (OES) survey.								
L	O*NET Score	O*NET is an acronym for the Occupational Information Network (http://www.onetcenter.org/). This data is a measure of the skills, knowledge, and abilities required for the occupations within this CIP, weighted by the number of openings in each occupation. The numerical score for each comparative occupational descriptor in the O*NET Knowledge, Skills, and Abilities data files were summed for each occupation. See Sources note below for more information.								
M	Growth Rate	The two-year projected rate of growth in employment of the occupations in this CIP, weighted by the number of openings in each occupation. This number could be negative but usually is not. Occupational growth rate is from the 2006-2008 Occupational Projections produced by the AzDES Research Administration.								
N	Turnover Ratio	This is the projected number of annual openings due to growth divided by the projected number of annual openings due to replacement (like retirements, quits, promotions, etc.). Higher ratios indicate lower turnover. Based on the 2006-2008 occupational projections data.								
0	BLS Education & Training Code	The job training and educational levels as assigned by the Bureau of Labor Statistics (BLS). See detailed descriptions of the BLS codes on page two of these notes. Note that higher numbers indicate lower amounts of education or training time.								

Source	
1	Openings and wage data are produced by the Arizona Department of Economic Security, Research Administration, in cooperation with the
	U.S. Department of Labor, Bureau of Labor Statistics. Wages are from the 2006 OES survey, and openings are from the 2006-2008
2	occupational employment projections.
2	For the O-Net score, the O-Net database, www.onetcenter.org/database.html, version 11.0, was used.
3	CIP / SOC crosswalk source: National Crosswalk Service Center http://www.xwalkcenter.org/xwxwalk.html#SOCCIP
4	The education levels are from the Bureau of Labor Statistics website at ftp://ftp.bls.gov/pub/special.requests/ep/optddata/
Calcula	tion method
1	Hourly wages were calculated by dividing annual wages by 2080.
2	All scores were first calculated by occupation using the SOC (Standard Occupational Code). The scores for each 6-digit SOC were calculated by averaging the scores for the 8-digit SOC's that comprise each 6-digit SOC.
3	In this iteration of the TERM, there were no restrictions on the BLS Training and Educational code. Note that the lower the training and educational time requirement, the higher the code numbers (see below).
4	Statistics by CIP (Classification of Instructional Programs) (except openings) were calculated by taking an openings-weighted average of the occupations in the CIP. For occupations appearing in more than one CIP, openings were evenly distributed among the CIPs. For example, if an occupation had 30 openings and was found in 3 CIPs, that occupation would be listed as having 10 openings in each of the 3 CIPs. After the openings were distributed in this manner, the number of openings in each CIP was calculated by summing the openings for each occupation within the CIP.
5	Percentiles were calculated for each statistic shown. In case of a tie, the same percentile was assigned to all CIP's involved in the tie.
6	The following formula determined the score for each CIP:
	(3 x openings percentile + 3 x wage percentile + ONET percentile + growth percentile + ratio percentile) / 9
<b>BLS Ed</b>	ucation Codes
1	First professional degree
2	Doctoral degree
3	Master's degree
4	Bachelor's or higher degree, plus work experience
5	Bachelor's degree
6	Associate degree
7	Post-secondary vocational training
8	Work experience in related occupation
9	Long-term on-the-job training
10	Moderate-term on-the-job training
11	Short-term on-the-job training
Questic	ons and Comments
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